

SEQUENCE LISTING

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<120> EXPRESSION VECTORS ENCODING EPITOPES OF
TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN

<130> MANNK.022C1

<150> 10/292,413

<151> 2002-11-07

<150> 60/336,968

<151> 2001-11-07

<160> 979

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 10

<212> PRT

<213> Homo Sapien

<400> 1

Glu	Leu	Ala	Gly	Ile	Gly	Ile	Leu	Thr	Val
1				5					10

<210> 2

<211> 118

<212> PRT

<213> Homo Sapien

<400> 2

Met	Pro	Arg	Glu	Asp	Ala	His	Phe	Ile	Tyr	Gly	Tyr	Pro	Lys	Lys	Gly
1				5					10					15	
His	Gly	His	Ser	Tyr	Thr	Thr	Ala	Glu	Ala	Ala	Gly	Ile	Gly	Ile	
		20						25				30			
Leu	Thr	Val	Ile	Leu	Gly	Val	Leu	Leu	Ile	Gly	Cys	Trp	Tyr	Cys	
		35					40				45				
Arg	Arg	Arg	Asn	Gly	Tyr	Arg	Ala	Leu	Met	Asp	Lys	Ser	Leu	His	Val
		50				55					60				
Gly	Thr	Gln	Cys	Ala	Leu	Thr	Arg	Arg	Cys	Pro	Gln	Glu	Gly	Phe	Asp
65					70				75					80	
His	Arg	Asp	Ser	Lys	Val	Ser	Leu	Gln	Glu	Lys	Asn	Cys	Glu	Pro	Val
			85					90					95		
Val	Pro	Asn	Ala	Pro	Pro	Ala	Tyr	Glu	Lys	Leu	Ser	Ala	Glu	Gln	Ser
			100					105					110		
Pro	Pro	Pro	Tyr	Ser	Pro										
			115												

<210> 3
 <211> 529
 <212> PRT
 <213> Homo Sapien

<400> 3

Met	Leu	Leu	Ala	Val	Leu	Tyr	Cys	Leu	Leu	Trp	Ser	Phe	Gln	Thr	Ser
1				5					10					15	
Ala	Gly	His	Phe	Pro	Arg	Ala	Cys	Val	Ser	Ser	Lys	Asn	Leu	Met	Glu
			20					25					30		
Lys	Glu	Cys	Cys	Pro	Pro	Trp	Ser	Gly	Asp	Arg	Ser	Pro	Cys	Gly	Gln
		35					40					45			
Leu	Ser	Gly	Arg	Gly	Ser	Cys	Gln	Asn	Ile	Leu	Leu	Ser	Asn	Ala	Pro
	50					55					60				
Leu	Gly	Pro	Gln	Phe	Pro	Phe	Thr	Gly	Val	Asp	Asp	Arg	Glu	Ser	Trp
65					70				75						80
Pro	Ser	Val	Phe	Tyr	Asn	Arg	Thr	Cys	Gln	Cys	Ser	Gly	Asn	Phe	Met
				85					90					95	
Gly	Phe	Asn	Cys	Gly	Asn	Cys	Lys	Phe	Gly	Phe	Trp	Gly	Pro	Asn	Cys
			100					105					110		
Thr	Glu	Arg	Arg	Leu	Leu	Val	Arg	Arg	Asn	Ile	Phe	Asp	Leu	Ser	Ala
		115					120					125			
Pro	Glu	Lys	Asp	Lys	Phe	Phe	Ala	Tyr	Leu	Thr	Leu	Ala	Lys	His	Thr
	130					135					140				
Ile	Ser	Ser	Asp	Tyr	Val	Ile	Pro	Ile	Gly	Thr	Tyr	Gly	Gln	Met	Lys
145					150					155					160
Asn	Gly	Ser	Thr	Pro	Met	Phe	Asn	Asp	Ile	Asn	Ile	Tyr	Asp	Leu	Phe
				165					170					175	
Val	Trp	Met	His	Tyr	Tyr	Val	Ser	Met	Asp	Ala	Leu	Leu	Gly	Gly	Ser
			180					185					190		
Glu	Ile	Trp	Arg	Asp	Ile	Asp	Phe	Ala	His	Glu	Ala	Pro	Ala	Phe	Leu
		195					200					205			
Pro	Trp	His	Arg	Leu	Phe	Leu	Leu	Arg	Trp	Glu	Gln	Glu	Ile	Gln	Lys
	210					215					220				
Leu	Thr	Gly	Asp	Glu	Asn	Phe	Thr	Ile	Pro	Tyr	Trp	Asp	Trp	Arg	Asp
225					230					235					240
Ala	Glu	Lys	Cys	Asp	Ile	Cys	Thr	Asp	Glu	Tyr	Met	Gly	Gly	Gln	His
				245					250					255	
Pro	Thr	Asn	Pro	Asn	Leu	Leu	Ser	Pro	Ala	Ser	Phe	Phe	Ser	Ser	Trp
			260					265					270		
Gln	Ile	Val	Cys	Ser	Arg	Leu	Glu	Glu	Tyr	Asn	Ser	His	Gln	Ser	Leu
		275					280					285			
Cys	Asn	Gly	Thr	Pro	Glu	Gly	Pro	Leu	Arg	Arg	Asn	Pro	Gly	Asn	His
	290					295					300				
Asp	Lys	Ser	Arg	Thr	Pro	Arg	Leu	Pro	Ser	Ser	Ala	Asp	Val	Glu	Phe
305					310					315					320
Cys	Leu	Ser	Leu	Thr	Gln	Tyr	Glu	Ser	Gly	Ser	Met	Asp	Lys	Ala	Ala
				325					330					335	
Asn	Phe	Ser	Phe	Arg	Asn	Thr	Leu	Glu	Gly	Phe	Ala	Ser	Pro	Leu	Thr
			340					345					350		
Gly	Ile	Ala	Asp	Ala	Ser	Gln	Ser	Ser	Met	His	Asn	Ala	Leu	His	Ile
		355					360					365			
Tyr	Met	Asn	Gly	Thr	Met	Ser	Gln	Val	Gln	Gly	Ser	Ala	Asn	Asp	Pro
	370					375					380				
Ile	Phe	Leu	Leu	His	His	Ala	Phe	Val	Asp	Ser	Ile	Phe	Glu	Gln	Trp
385					390					395					400

Leu Arg Arg His Arg Pro Leu Gln Glu Val Tyr Pro Glu Ala Asn Ala
 405 410 415
 Pro Ile Gly His Asn Arg Glu Ser Tyr Met Val Pro Phe Ile Pro Leu
 420 425 430
 Tyr Arg Asn Gly Asp Phe Phe Ile Ser Ser Lys Asp Leu Gly Tyr Asp
 435 440 445
 Tyr Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp Tyr Ile
 450 455 460
 Lys Ser Tyr Leu Glu Gln Ala Ser Arg Ile Trp Ser Trp Leu Leu Gly
 465 470 475 480
 Ala Ala Met Val Gly Ala Val Leu Thr Ala Leu Leu Ala Gly Leu Val
 485 490 495
 Ser Leu Leu Cys Arg His Lys Arg Lys Gln Leu Pro Glu Glu Lys Gln
 500 505 510
 Pro Leu Leu Met Glu Lys Glu Asp Tyr His Ser Leu Tyr Gln Ser His
 515 520 525
 Leu

<210> 4
 <211> 94
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pMA2M expression product

<400> 4
 Met Leu Leu Ala Val Leu Tyr Cys Leu Glu Leu Ala Gly Ile Gly Ile
 1 5 10 15
 Leu Thr Val Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ile Leu Thr
 20 25 30
 Val Ile Leu Gly Val Leu Leu Leu Ile Gly Cys Trp Tyr Cys Arg Arg
 35 40 45
 Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys Ser Leu His Val Gly Thr
 50 55 60
 Gln Cys Ala Leu Thr Arg Arg Cys Pro Gln Glu Gly Phe Asp His Arg
 65 70 75 80
 Asp Ser Lys Val Ser Leu Gln Glu Lys Asn Cys Glu Pro Val
 85 90

<210> 5
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Epitope liberation sequence for SEQ ID NO. 1 from
 pMA2M

<400> 5
 Met Leu Leu Ala Val Leu Tyr Cys Leu Glu Leu Ala Gly Ile Gly Ile
 1 5 10 15
 Leu Thr Val Tyr Met Asp Gly Thr Met Ser Gln Val
 20 25

<210> 6
 <211> 9
 <212> PRT
 <213> Homo Sapien

<400> 6
 Met Leu Leu Ala Val Leu Tyr Cys Leu
 1 5

<210> 7
 <211> 9
 <212> PRT
 <213> Homo Sapien

<400> 7
 Tyr Met Asp Gly Thr Met Ser Gln Val
 1 5

<210> 8
 <211> 10
 <212> PRT
 <213> Homo Sapien

<400> 8
 Glu Ala Ala Gly Ile Gly Ile Leu Thr Val
 1 5 10

<210> 9
 <211> 307
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> pMA2M insert coding region

<400> 9
 cttaaagccac catgttacta gctgttttgt actgcctgga actagcaggg atcggcatat 60
 tgacagtgtat tatggatgga acaatgtccc aggttagaat tctgacagtg atcctgggag 120
 tcttactgct catcggtgtg ttgtattgta gaagacgaaa tggatacaga gccttgatgg 180
 ataaaagtct tcatgttggc actcaatgtg ccttaacaag aagatgcca caagaagggt 240
 ttgatcatcg ggacagcaaa gtgtctcttc aagagaaaaa ctgtgaacct gtgtagttag 300
 cggccgc 307

<210> 10
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Epitope array from pVAXM2 and pVAXM1

<400> 10

Met	Val	Leu	Tyr	Cys	Leu	Glu	Leu	Ala	Gly	Ile	Gly	Ile	Leu	Thr	Val
1				5					10					15	
Tyr	Met	Asp	Gly	Thr	Ala	Val	Leu	Tyr	Cys	Leu	Glu	Leu	Ala	Gly	Ile
			20					25					30		
Gly	Ile	Leu	Thr	Val	Tyr	Met	Asp	Gly	Thr	Met	Leu	Ala	Val	Leu	Tyr
		35					40					45			
Cys	Leu	Glu	Leu	Ala	Gly	Ile	Gly	Ile	Leu	Thr	Val	Tyr	Met	Asp	Gly
	50					55					60				
Thr	Met	Ser	Leu	Leu	Ala	Val	Leu	Tyr	Cys	Leu	Glu	Leu	Ala	Gly	Ile
65					70					75					80
Gly	Ile	Leu	Thr	Val											
				85											

<210> 11
 <211> 180
 <212> PRT
 <213> Homo Sapien

Met	Gln	Ala	Glu	Gly	Arg	Gly	Thr	Gly	Gly	Ser	Thr	Gly	Asp	Ala	Asp
1				5					10					15	
Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn	Ala	Gly
			20					25					30		
Gly	Pro	Gly	Glu	Ala	Gly	Ala	Thr	Gly	Gly	Arg	Gly	Pro	Arg	Gly	Ala
		35					40					45			
Gly	Ala	Ala	Arg	Ala	Ser	Gly	Pro	Gly	Gly	Gly	Ala	Pro	Arg	Gly	Pro
	50					55					60				
His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys	Cys	Arg	Cys	Gly	Ala
65					70					75					80
Arg	Gly	Pro	Glu	Ser	Arg	Leu	Leu	Glu	Phe	Tyr	Leu	Ala	Met	Pro	Phe
				85					90					95	
Ala	Thr	Pro	Met	Glu	Ala	Glu	Leu	Ala	Arg	Arg	Ser	Leu	Ala	Gln	Asp
			100					105					110		
Ala	Pro	Pro	Leu	Pro	Val	Pro	Gly	Val	Leu	Leu	Lys	Glu	Phe	Thr	Val
		115					120					125			
Ser	Gly	Asn	Ile	Leu	Thr	Ile	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg	Gln
	130					135					140				
Leu	Gln	Leu	Ser	Ile	Ser	Ser	Cys	Leu	Gln	Gln	Leu	Ser	Leu	Leu	Met
145					150					155					160
Trp	Ile	Thr	Gln	Cys	Phe	Leu	Pro	Val	Phe	Leu	Ala	Gln	Pro	Pro	Ser
				165					170					175	
Gly	Gln	Arg	Arg												
			180												

<210> 12
 <211> 9
 <212> PRT
 <213> Homo Sapien

Ser	Leu	Leu	Met	Trp	Ile	Thr	Gln	Cys
1				5				

<210> 13

<211> 9
 <212> PRT
 <213> Homo Sapien

<400> 13
 Lys Ala Ser Glu Lys Ile Phe Tyr Val
 1 5

<210> 14
 <211> 9
 <212> PRT
 <213> Homo Sapien

<400> 14
 Thr Gln Cys Phe Leu Pro Val Phe Leu
 1 5

<210> 15
 <211> 10
 <212> PRT
 <213> Homo Sapien

<400> 15
 Gly Leu Pro Ser Ile Pro Val His Pro Ile
 1 5 10

<210> 16
 <211> 6
 <212> PRT
 <213> Homo Sapien

<400> 16
 Ala Val Leu Tyr Cys Leu
 1 5

<210> 17
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pN157 expression product

<400> 17
 Met Ser Leu Leu Met Trp Ile Thr Gln Cys Lys Ala Ser Glu Lys Ile
 1 5 10 15
 Phe Tyr Val Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg Leu Leu Glu
 20 25 30
 Phe Tyr Leu Ala Met Pro Phe Ala Thr Pro Met Glu Ala Glu Leu Ala
 35 40 45
 Arg Arg Ser Leu Ala Gln Asp Ala Pro Pro Leu Pro Val Pro Gly Val
 50 55 60
 Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile Arg Leu

65		70		75		80									
Thr	Ala	Ala	Asp	His	Arg	Gln	Leu	Gln	Leu	Ser	Ile	Ser	Ser	Cys	Leu
			85					90						95	
Gln	Gln	Leu	Ser	Leu	Leu	Met	Trp	Ile	Thr	Gln	Cys	Phe	Leu	Pro	Val
		100					105						110		
Phe	Leu	Ala	Gln	Pro	Pro	Ser	Gly	Gln	Arg	Arg					
		115					120								

<210> 18
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Epitope liberation sequence for SEQ ID NO. 12 from pN157

<400> 18
Met Ser Leu Leu Met Trp Ile Thr Gln Cys Lys Ala Ser Glu Lys Ile
1 5 10 15
Phe Tyr Val

<210> 19
 <211> 392
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> pN157 insert coding region

<400> 19	
cttaagccac catgtccctg ttgatgtgga tcacgcagtg caaagcttcg gagaaaatct	60
tctacgtacg gtgcggtgcc agggggccgg agagccgcct gcttgagttc tacctcgcca	120
tgcctttcgc gacacccatg gaagcagagc tggcccgcag gagcctggcc caggatgccc	180
caccgcttcc cgtgccaggg gtgcttctga aggagttcac tgtgtccggc aacatactga	240
ctatccgact gactgctgca gaccaccgcc aactgcagct ctccatcagc tcctgtctcc	300
agcagctttc cctgttgatg tggatcacgc agtgctttct gcccggtgtt ttggctcagc	360
ctccctcagg gcagaggcgc tagtgagaat tc	392

<210> 20
 <211> 179
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> pBPL expression product

<400> 20
Met Ser Leu Leu Met Trp Ile Thr Gln Cys Lys Ala Ser Glu Lys Ile
1 5 10 15
Phe Tyr Val Gly Leu Pro Ser Ile Pro Val His Pro Ile Gly Leu Pro
20 25 30
Ser Ile Pro Val His Pro Ile Lys Ala Ser Glu Lys Ile Phe Tyr Val
35 40 45

Ser Leu Leu Met Trp Ile Thr Gln Cys Lys Ala Ser Glu Lys Ile Phe
 50 55 60
 Tyr Val Lys Ala Ser Glu Lys Ile Phe Tyr Val Arg Cys Gly Ala Arg
 65 70 75 80
 Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe Ala
 85 90 95
 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp Ala
 100 105 110
 Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser
 115 120 125
 Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln Leu
 130 135 140
 Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met Trp
 145 150 155 160
 Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser Gly
 165 170 175
 Gln Arg Arg

<210> 21
 <211> 543
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> pBPL insert coding region

<400> 21
 atgtccctgt tgatgtggat cacgcagtcg aaagcttcgg agaaaatctt ctatgtgggt 60
 cttccaagta ttcctgttca tccaattggg cttccaagta ttcctgttca tccaattaaa 120
 gcttcggaga aaatcttcta tgtgtccctg ttgatgtgga tcacgcagtg caaagcttcg 180
 gagaaaatct tctatgtgaa agcttcggag aaaatcttct acgtacgggt cggtgccagg 240
 gggccggaga gccgcctgct tgagttctac ctgcgccatgc ctttcgcgac acccatggaa 300
 gcagagctgg cccgcaggag cctggcccag gatgcccac cgcttcccgt gccaggggtg 360
 cttctgaagg agttcactgt gtccggcaac atactgacta tccgactgac tgctgcagac 420
 caccgccaac tgcagctctc catcagctcc tgtctccagc agctttccct gttgatgtgg 480
 atcacgcagt gctttctgcc cgtgtttttg gctcagcctc cctcagggca gaggcgctag 540
 tga 543

<210> 22
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> liberation sequence for SEQ ID NO. 22

<400> 22
 Ile Lys Ala Ser Glu Lys Ile Phe Tyr Val Ser Leu Leu Met Trp Ile
 1 5 10 15
 Thr Gln Cys Lys Ala Ser Glu Lys Ile Phe Tyr Val Lys
 20 25

<210> 23
 <211> 9

<212> PRT
<213> Homo Sapien

<400> 23
Val Met Thr Lys Leu Gly Phe Lys Val
1 5

<210> 24
<211> 10
<212> PRT
<213> Homo Sapien

<400> 24
Arg Gln Ile Tyr Val Ala Ala Phe Thr Val
1 5 10

<210> 25
<211> 169
<212> PRT
<213> Homo Sapien

<400> 25
Ala Gln Ile Pro Glu Lys Ile Gln Lys Ala Phe Asp Asp Ile Ala Lys
1 5 10 15
Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile
20 25 30
Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly
35 40 45
Phe Lys Ala Thr Leu Pro Pro Phe Met Cys Asn Lys Arg Ala Glu Asp
50 55 60
Phe Gln Gly Asn Asp Leu Asp Asn Asp Pro Asn Arg Gly Asn Gln Val
65 70 75 80
Glu Arg Pro Gln Met Thr Phe Gly Arg Leu Gln Gly Ile Ser Pro Lys
85 90 95
Ile Met Pro Lys Lys Pro Ala Glu Glu Gly Asn Asp Ser Glu Glu Val
100 105 110
Pro Glu Ala Ser Gly Pro Gln Asn Asp Gly Lys Glu Leu Cys Pro Pro
115 120 125
Gly Lys Pro Thr Thr Ser Glu Lys Ile His Glu Arg Ser Gly Pro Lys
130 135 140
Arg Gly Glu His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln Leu
145 150 155 160
Val Ile Tyr Glu Glu Ile Ser Asp Pro
165

<210> 26
<211> 245
<212> PRT
<213> Artificial Sequence

<220>
<223> CTLS1/pCBP expression product

<400> 26

Met	Val	Met	Thr	Lys	Leu	Gly	Phe	Lys	Val	Lys	Ala	Ser	Glu	Lys	Ile	
1				5				10						15		
Phe	Tyr	Val	Arg	Gln	Ile	Tyr	Val	Ala	Ala	Phe	Thr	Val	Gly	Leu	Pro	
			20					25					30			
Ser	Ile	Pro	Val	His	Pro	Ile	Thr	Gln	Cys	Phe	Leu	Pro	Val	Phe	Leu	
		35				40						45				
Val	Met	Thr	Lys	Leu	Gly	Phe	Lys	Val	Arg	Gln	Ile	Tyr	Val	Ala	Ala	
	50				55						60					
Phe	Thr	Val	Lys	Ala	Ser	Glu	Lys	Ile	Phe	Tyr	Val	Ala	Gln	Ile	Pro	
65					70					75					80	
Glu	Lys	Ile	Gln	Lys	Ala	Phe	Asp	Asp	Ile	Ala	Lys	Tyr	Phe	Ser	Lys	
				85				90						95		
Glu	Glu	Trp	Glu	Lys	Met	Lys	Ala	Ser	Glu	Lys	Ile	Phe	Tyr	Val	Tyr	
			100					105					110			
Met	Lys	Arg	Lys	Tyr	Glu	Ala	Met	Thr	Lys	Leu	Gly	Phe	Lys	Ala	Thr	
		115					120					125				
Leu	Pro	Pro	Phe	Met	Cys	Asn	Lys	Arg	Ala	Glu	Asp	Phe	Gln	Gly	Asn	
	130					135					140					
Asp	Leu	Asp	Asn	Asp	Pro	Asn	Arg	Gly	Asn	Gln	Val	Glu	Arg	Pro	Gln	
145				150						155					160	
Met	Thr	Phe	Gly	Arg	Leu	Gln	Gly	Ile	Ser	Pro	Lys	Ile	Met	Pro	Lys	
				165				170						175		
Lys	Pro	Ala	Glu	Glu	Gly	Asn	Asp	Ser	Glu	Glu	Val	Pro	Glu	Ala	Ser	
			180				185						190			
Gly	Pro	Gln	Asn	Asp	Gly	Lys	Glu	Leu	Cys	Pro	Pro	Gly	Lys	Pro	Thr	
	195					200						205				
Thr	Ser	Glu	Lys	Ile	His	Glu	Arg	Ser	Gly	Pro	Lys	Arg	Gly	Glu	His	
	210				215						220					
Ala	Trp	Thr	His	Arg	Leu	Arg	Glu	Arg	Lys	Gln	Leu	Val	Ile	Tyr	Glu	
225					230					235					240	
Glu	Ile	Ser	Asp	Pro												
				245												

<210> 27
 <211> 245
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CTL52 expression product

<400> 27

Met	Ala	Gln	Ile	Pro	Glu	Lys	Ile	Gln	Lys	Ala	Phe	Asp	Asp	Ile	Ala	
1				5				10						15		
Lys	Tyr	Phe	Ser	Lys	Glu	Glu	Trp	Glu	Lys	Met	Lys	Ala	Ser	Glu	Lys	
			20					25					30			
Ile	Phe	Tyr	Val	Tyr	Met	Lys	Arg	Lys	Tyr	Glu	Ala	Met	Thr	Lys	Leu	
		35				40						45				
Gly	Phe	Lys	Ala	Thr	Leu	Pro	Pro	Phe	Met	Cys	Asn	Lys	Arg	Ala	Glu	
	50				55						60					
Asp	Phe	Gln	Gly	Asn	Asp	Leu	Asp	Asn	Asp	Pro	Asn	Arg	Gly	Asn	Gln	
65				70					75						80	
Val	Glu	Arg	Pro	Gln	Met	Thr	Phe	Gly	Arg	Leu	Gln	Gly	Ile	Ser	Pro	
				85				90						95		
Lys	Ile	Met	Pro	Lys	Lys	Pro	Ala	Glu	Glu	Gly	Asn	Asp	Ser	Glu	Glu	
			100					105					110			

<210> 29
 <211> 207
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CTL54 expression product

<400> 29
 Met Ala Gln Ile Pro Glu Lys Ile Gln Lys Ala Phe Asp Asp Ile Ala
 1 5 10 15
 Lys Tyr Phe Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys
 20 25 30
 Ile Phe Tyr Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu
 35 40 45
 Gly Phe Lys Ala Thr Leu Pro Pro Phe Met Cys Asn Lys Arg Ala Glu
 50 55 60
 Asp Phe Gln Gly Asn Asp Leu Asp Asn Asp Pro Asn Arg Gly Asn Gln
 65 70 75 80
 Val Glu Arg Pro Gln Met Thr Phe Gly Arg Leu Gln Gly Ile Ser Pro
 85 90 95
 Lys Ile Met Pro Lys Lys Pro Ala Glu Glu Gly Asn Asp Ser Glu Glu
 100 105 110
 Val Pro Glu Ala Ser Gly Pro Gln Asn Asp Gly Lys Glu Leu Cys Pro
 115 120 125
 Pro Gly Lys Pro Thr Thr Ser Glu Lys Ile His Glu Arg Ser Gly Pro
 130 135 140
 Lys Arg Gly Glu His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln
 145 150 155 160
 Leu Val Ile Tyr Glu Glu Ile Ser Asp Pro Thr Gln Cys Phe Leu Pro
 165 170 175
 Val Phe Leu Val Met Thr Lys Leu Gly Phe Lys Val Arg Gln Ile Tyr
 180 185 190
 Val Ala Ala Phe Thr Val Lys Ala Ser Glu Lys Ile Phe Tyr Val
 195 200 205

<210> 30
 <211> 741
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> pCBP insert coding region

<400> 30
 atggtcatga ctaaactagg tttcaaggctc aaagcttcgg agaaaatctt ctatgtgaga 60
 cagatttatg ttgcagcctt cacagtgggt cttccaagta ttcctgttca tccaattacg 120
 cagtgtcttc tgcccgtgtt tttggtcatg actaaactag gtttcaaggc cagacagatt 180
 tatgttgcag ccttcacagt gaaagcttcg gagaaaatct tctacgtagc tcaaatacca 240
 gagaagatcc aaaaggcctt cgatgatatt gccaaatact tctctaagga agagtgggaa 300
 aagatgaaag cctcggagaa aatcttctat gtgtatatga agagaaagta tgaggctatg 360
 actaaactag gtttcaaggc caccctccca cctttcatgt gtaataaacg ggccgaagac 420
 ttccagggga atgatttgga taatgaccct aaccgtggga atcaggttga acgtcctcag 480
 atgactttcg gcaggctcca gggaatctcc ccgaagatca tgcccaagaa gccagcagag 540
 gaaggaaatg attcggagga agtgccagaa gcattctggc caaaaaatga tgggaaagag 600
 ctgtgcccc cgggaaaacc aactacctct gagaagattc acgagagatc tggacccaaa 660

aggggggaac atgcctggac ccacagactg cgtgagagaa aacagctggt gatttatgaa 720
gagatcagcg acccttagtg a 741

<210> 31
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> CTLS11-2 liberation/substrate sequence

<400> 31
Arg Gln Ile Tyr Val Ala Ala Phe Thr Val Lys Ala Ser Glu Lys Ile
1 5 10 15
Phe Tyr Val Ala Gln Ile Pro Glu Lys Ile Gln Lys
20 25

<210> 32
<211> 9
<212> PRT
<213> Homo Sapien

<400> 32
Phe Leu Pro Trp His Arg Leu Phe Leu
1 5

<210> 33
<211> 104
<212> PRT
<213> Artificial Sequence

<220>
<223> CTLT2/pMEL expression product

<400> 33
Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser
1 5 10 15
Ala Phe Leu Pro Trp His Arg Leu Phe Leu Met Leu Leu Ala Val Leu
20 25 30
Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser Ala Phe Leu Pro Trp His
35 40 45
Arg Leu Phe Leu Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser
50 55 60
Phe Gln Thr Ser Ala Phe Leu Pro Trp His Arg Leu Phe Leu Met Leu
65 70 75 80
Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser Ala Phe
85 90 95
Leu Pro Trp His Arg Leu Phe Leu
100

<210> 34
<211> 318
<212> DNA
<213> Artificial Sequence

<220>

<223> CTLT2/pMEL insert coding region

<400> 34

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acctccgctt ttctgccttg gcatagactc ttcttgatgc tcctggctgt tttgtactgc 180
ctgctgtgga gtttccagac ctccgctttt ctgccttggc atagactctt cttgatgctc 240
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agactcttct tgtagtga                                     318
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<210> 35

<211> 1524

<212> DNA

<213> Homo Sapien

<400> 35

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gagaagatgc tcacttcata tatggttacc ccaagaaggg gcacggccac tcttacacca 120
cggctgaaga ggccgctggg atcggcatcc tgacagtgat cctgggagtc ttactgctca 180
tcggctgttg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
atgttggcac tcaatgtgcc ttaacaagaa gatgccaca agaagggttt gatcatcggg 300
acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg 360
cttatgagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
gacacctgag acatgctgaa attattttct tcacactttt gcttgaattt aatacagaca 480
tctaattgtc tcctttggaa tgggttagga aaaatgcaag ccactcttaa taataagtca 540
gtgttaaaat ttttagtagt ccgctagcag tactaatcat gtgaggaaat gatgagaaat 600
attaaatttg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag 660
gtaattgttg taaatccatg gtgttatttt ctgagagaca gaattcaagt ggggtattctg 720
gggccatcca atttctcttt acttgaaatt tggctaataa caaactagtc aggttttcga 780
accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctcacaaagg 840
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agcaatgtct ctttgtgctc taaaattcta ttatactaca ataatatatt gtaaagatcc 960
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ctcctgagta gctgggatta caggcgtgag ccactatgcc tgactaattt tgtagtttta 1140
gtagagacgg ggtttctcca tgttggctag gctggcttca aactcctgac ctgaggtgat 1200
ctgcccgcct cagcctccca aagtgtctga attacaggcg tgagccacca cgcctggctg 1260
gatcctatat cttaggtgaag acatataacg cagtctaatt acatttctact tcaaggctca 1320
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aataagtaaa agctactatg tactgcctta gtgctgatgc ctgtgtactg ccttaaatgt 1440
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aatcataaag gatcagagat tctg                                     1524
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<210> 36

<211> 1964

<212> DNA

<213> Homo Sapien

<400> 36

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ccagacctcc gctggccatt tccctagagc ctgtgtctcc tctaagaacc tgatggagaa 180
ggaatgctgt ccaccgtgga gcggggacag gagtccctgt ggccagcttt caggcagagg 240
ttcctgtcag aatatccttc tgtccaatgc accacttggg cctcaatttc ccttcacagg 300
ggtggatgac cgggagtcgt ggccttccgt cttttataat aggacctgcc agtgctctgg 360
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caacttcatg ggattcaact gtggaaactg caagtttggc ttttggggac caaactgcac 420
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atthttttgcc tacctcactt tagcaaagca taccatcagc tcagactatg tcatccccat 540
agggacctat ggccaaatga aaaatggatc aacacccatg tttaacgaca tcaatattta 600
tgacctcttt gtctggatgc attattatgt gtcaatggat gcaactgctt ggggatctga 660
aatctggaga gacattgatt ttgcccatag agcaccagct tttctgcctt ggcatagact 720
cttcttggtg cgggtgggaac aagaaatcca gaagctgaca ggagatgaaa acttcactat 780
tccatatttg gactggcggg atgcagaaaa gtgtgacatt tgcacagatg agtacatggg 840
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gattgtctgt agccgatttg aggagtacaa cagccatcag tctttatgca atggaacgcc 960
cgagggacct ttacggcgta atcctggaaa ccatgacaaa tccagaacct caaggctccc 1020
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taaagctgcc aatttcagct ttagaaatc actggaagga tttgctagtc cacttactgg 1140
gatagcggat gcctctcaaa gcagcatgca caatgccttg cacatctata tgaatggaac 1200
aatgtccag gtacagggat ctgccaacga tcctatcttc cttcttcacc atgcatttgt 1260
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agattcagac ccagactctt ttcaagacta cattaagtcc tatttggaa aagcgagtcg 1500
gatctggtca tggctccttg gggcggcgat ggtagggggc gtctcactg ccctgctggc 1560
agggtctgtg agcttgctgt gtcgtcacia gagaaagcag cttcctgaag aaaagcagcc 1620
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ccagagaata tctgctggta tttttctgta aagaccattt gcaaaattgt aacctaatac 1800
aaagtgtagc cttcttccaa ctacaggtaga acacacctgt ctttgtcttg ctgttttcac 1860
tcagcccttt taacattttc ccctaagccc atatgtctaa ggaaaggatg ctatttggtg 1920
atgaggaact gttatttgta tgtgaattaa agtgctctta tttt 1964

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<210> 37

<211> 752

<212> DNA

<213> Homo Sapien

<400> 37

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atcctcgtgg gccctgacct tctctctgag agccgggcag aggtcccgga gccatgcagg 60
ccgaaggccg gggcacaggg gggtcgacgg gcgatgctga tggcccagga ggccctggca 120
ttcctgatgg cccagggggc aatgctggcg gcccaggaga ggcgggtgcc acgggcggca 180
gaggtccccg gggcgagggg gcagcaaggg cctcggggcc gggaggaggc gcccgcggg 240
gtccgcatgg cggcgcggtt tcagggctga atggatgctg cagatgcggg gccagggggc 300
cggagagccg cctgcttgag ttctacctcg ccatgccttt cgcgacacct atggaagcag 360
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tgaaggagtt cactgtgtcc ggcaacatac tgactatccg actgactgct gcagaccacc 480
gccaaactgca gctctccatc agctcctgtc tccagcagct ttccctgttg atgtggatca 540
cgcagtgctt tctgcccgtg tttttggctc agcctccctc agggcagagg cgctaagccc 600
agcctggcgc cccttcctag gtcatgcctc ctcccctagg gaatggctcc agcacagagt 660
gccagttcat tgtggggggc tgattgtttg tcgctggagg aggacggctt acatgtttgt 720
ttctgtagaa aataaaaact agctacgaaa aa 752

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<210> 38

<211> 750

<212> PRT

<213> Homo Sapien

<400> 38

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Met Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg
 1           5           10          15
Arg Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe

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Leu Lys Ser Pro Asp Glu Gly Phe Glu Gly Lys Ser Leu Tyr Glu Ser
 485 490 495
 Trp Thr Lys Lys Ser Pro Ser Pro Glu Phe Ser Gly Met Pro Arg Ile
 500 505 510
 Ser Lys Leu Gly Ser Gly Asn Asp Phe Glu Val Phe Phe Gln Arg Leu
 515 520 525
 Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr Lys Asn Trp Glu Thr Asn
 530 535 540
 Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu
 545 550 555 560
 Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val
 565 570 575
 Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val
 580 585 590
 Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala
 595 600 605
 Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr
 610 615 620
 Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr
 625 630 635 640
 Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser
 645 650 655
 Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu
 660 665 670
 Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
 675 680 685
 His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser
 690 695 700
 Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp
 705 710 715 720
 Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala
 725 730 735
 Phe Thr Val Gln Ala Ala Ala Glu Thr Leu Ser Glu Val Ala
 740 745 750

<210> 39
 <211> 2653
 <212> DNA
 <213> Homo Sapien

<400> 39
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 gcgaattcca gcctgcaggg ctgataagcg aggcattagt gagattgaga gagactttac 180
 cccgccgtgg tggttggagg gcgcgcagta gagcagcagc acaggcgagg gtcccgggag 240
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 ccaaagcata atatgaaagc atttttggat gaattgaaag ctgagaacat caagaagttc 480
 ttatataatt ttacacagat accacattta gcaggaacag aacaaaactt tcagcttgca 540
 aagcaaattc aatcccagtg gaaagaattt ggcctggatt ctgttgagct agcacattat 600
 gatgtcctgt tgtcctaccc aaataagact catcccaact acatctcaat aattaatgaa 660
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 gtttcggata ttgtaccacc tttcagtgct ttctctctc aaggaatgcc agagggcgat 780
 ctagtgtatg ttaactatgc acgaactgaa gacttcttta aattggaacg ggacatgaaa 840
 atcaattgct ctgggaaaat tgtaattgcc agatatggga aagttttcag aggaaataag 900

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gttaaaaatg cccagctggc aggggccaaa ggagtcattc tctactccga ccctgctgac 960
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tctttagaga atccgtattg aatttgtgtg gtatgtcact cagaaagaat cgtaatgggt 2580
atattgataa attttaaaat tggatatatt gaaataaagt tgaatattat atataaaaaa 2640
aaaaaaaaa aaa 2653

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<210> 40
 <211> 188
 <212> PRT
 <213> Homo Sapien

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<400> 40
Met Asn Gly Asp Asp Ala Phe Ala Arg Arg Pro Thr Val Gly Ala Gln
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Ile Pro Glu Lys Ile Gln Lys Ala Phe Asp Asp Ile Ala Lys Tyr Phe
 20             25             30
Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile Phe Tyr
 35             40             45
Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe Lys
 50             55             60
Ala Thr Leu Pro Pro Phe Met Cys Asn Lys Arg Ala Glu Asp Phe Gln
 65             70             75             80
Gly Asn Asp Leu Asp Asn Asp Pro Asn Arg Gly Asn Gln Val Glu Arg
 85             90             95
Pro Gln Met Thr Phe Gly Arg Leu Gln Gly Ile Ser Pro Lys Ile Met
 100            105            110
Pro Lys Lys Pro Ala Glu Glu Gly Asn Asp Ser Glu Glu Val Pro Glu
 115            120            125
Ala Ser Gly Pro Gln Asn Asp Gly Lys Glu Leu Cys Pro Pro Gly Lys
 130            135            140
Pro Thr Thr Ser Glu Lys Ile His Glu Arg Ser Gly Pro Lys Arg Gly
 145            150            155            160

```

Glu His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln Leu Val Ile
165 170 175
Tyr Glu Glu Ile Ser Asp Pro Glu Glu Asp Asp Glu
180 185

<210> 41
<211> 766
<212> DNA
<213> Homo Sapien

<400> 41
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accacagggtt ggtgctcaaa taccagagaa gatccaaaag gccttcgatg atattgccaa 180
atacttctct aaggaagagt gggaaaagat gaaagcctcg gagaaaatct tctatgtgta 240
tatgaagaga aagtatgagg ctatgactaa actaggtttc aaggccaccc tcccaccttt 300
catgtgtaat aaacggggccg aagacttcca ggggaatgat ttggataatg accctaaccg 360
tggaatcag gttgaacgtc ctcatgatgac ttctggcagg ctccaggga tctccccgaa 420
gatcatgccc aagaagccag cagaggaagg aaatgattcg gaggaagtgc cagaagcatc 480
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gattcacgag agatctggac caaaagggg ggaacatgcc tggaccaca gactgctgta 600
gagaaaacag ctggtgattt atgaagagat cagcgaccct gaggaagatg acgagtaact 660
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catgggcatg gctgcggacc cctcgtcatc aggtgcatag caagtg 766

<210> 42
<211> 903
<212> DNA
<213> Herpes Simplex Virus

<400> 42
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cgccgtggcg ccctacagac acgctcgcgc cagaggggag aggtccgttt cgtccagtac 180
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gcgcctccgc caccgctgg gtccggaggg gccggacgca caccaccac cgcccccg 360
gcccccgaa cccagcgggt ggcgactaag gcccccgcg ccccgcgccg ggagaccacc 420
cgcggcagga aatcgggcca gccagaatcc gccgcactcc cagacgcccc cgcgtcgacg 480
gcgccaaccc gatccaagac acccgcgag gggctggcca gaaagctgca ctttagcacc 540
gccccccaa accccgacgc gccatggacc ccccggtgg ccggctttaa caagcgcgtc 600
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tggaacatgt cgcgtccgag cacagacgaa gacctcaacg aactccttg catcaccacc 720
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ccagacgtgg tgcaggacgt cgacgcggcc acggcgactc gagggcgctc tgcggcgctc 840
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gag 903

<210> 43
<211> 311
<212> PRT
<213> Herpes Simplex Virus

<400> 43
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1 5 10 15

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			20					25					30		
Pro	Asp	Ser	Pro	Pro	Asp	Thr	Ser	Arg	Arg	Gly	Ala	Leu	Phe	Thr	Gln
		35					40					45			
Thr	Arg	Ser	Arg	Gln	Arg	Gly	Glu	Val	Arg	Phe	Val	Gln	Tyr	Asp	Glu
	50					55					60				
Ser	Asp	Tyr	Ala	Leu	Tyr	Gly	Gly	Ser	Ser	Ser	Glu	Asp	Asp	Glu	His
65					70					75					80
Pro	Glu	Val	Pro	Arg	Thr	Arg	Arg	Pro	Val	Ser	Gly	Ala	Val	Leu	Ser
				85					90					95	
Gly	Pro	Gly	Pro	Ala	Arg	Ala	Pro	Pro	Phe	Thr	Pro	Ala	Gly	Ser	
			100					105				110			
Gly	Gly	Ala	Gly	Arg	Thr	Pro	Thr	Thr	Ala	Pro	Arg	Ala	Pro	Arg	Thr
		115					120					125			
Gln	Arg	Val	Ala	Thr	Lys	Ala	Pro	Ala	Ala	Pro	Ala	Ala	Glu	Thr	Thr
	130					135					140				
Arg	Gly	Arg	Lys	Ser	Ala	Gln	Pro	Glu	Ser	Ala	Ala	Leu	Pro	Asp	Ala
145					150					155					160
Pro	Ala	Ser	Thr	Ala	Pro	Thr	Phe	Thr	Arg	Ser	Lys	Thr	Pro	Ala	Gln
				165					170					175	
Gly	Leu	Ala	Arg	Lys	Leu	His	Phe	Ser	Thr	Ala	Pro	Pro	Asn	Pro	Asp
			180					185					190		
Ala	Pro	Trp	Thr	Pro	Arg	Val	Ala	Gly	Phe	Asn	Lys	Arg	Val	Phe	Cys
		195					200					205			
Ala	Ala	Val	Gly	Arg	Leu	Ala	Ala	Met	His	Ala	Arg	Met	Ala	Ala	Val
	210					215					220				
Gln	Leu	Trp	Asp	Phe	Thr	Met	Ser	Arg	Pro	Arg	Thr	Asp	Glu	Asp	Leu
225					230					235					240
Asn	Glu	Leu	Leu	Gly	Ile	Thr	Thr	Ile	Arg	Val	Thr	Val	Cys	Glu	Gly
				245					250				255		
Lys	Asn	Leu	Leu	Gln	Arg	Ala	Asn	Glu	Leu	Val	Asn	Pro	Asp	Val	Val
			260					265					270		
Gln	Asp	Val	Asp	Ala	Ala	Thr	Ala	Thr	Arg	Gly	Arg	Ser	Ala	Ala	Ser
		275					280					285			
Arg	Phe	Thr	Pro	Thr	Glu	Arg	Pro	Arg	Ala	Pro	Ala	Arg	Ser	Ala	Ser
	290					295					300				
Arg	Pro	Arg	Arg	Pro	Val	Glu									
305					310										

<210> 44
 <211> 9
 <212> PRT
 <213> Adenovirus 3

<400> 44
 Leu Ile Val Ile Gly Ile Leu Ile Leu
 1 5

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Gly Thr Leu Gly Ile Val Cys Pro Ile
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 Asp Tyr Ala Thr Leu Gly Val Gly Val
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Cys Thr Glu Leu Lys Leu Ser Asp Tyr
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 Ala Pro Thr Ala Gly Ala Phe Phe Phe
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Tyr Pro His Phe Met Pro Thr Asn Leu
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 Tyr Pro Ala Leu Gly Leu His Glu Phe
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 Asp Pro Val Ile Asp Arg Leu Tyr Leu
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Ile Ala Gly Ile Gly Ile Leu Ala Ile
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Leu Leu Tyr Arg Phe Leu Leu Leu
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Tyr Ser Gly Tyr Ile Phe Arg Asp Leu
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Ser Tyr Ile Gly Ser Ile Asn Asn Ile
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Cys Lys Gly Val Asn Lys Glu Tyr Leu
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<210> 405

<211> 9

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Gln Gly Ile Asn Asn Leu Asp Asn Leu
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<211> 10

<212> PRT

<213> Sendai Virus 40

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Asn Asn Leu Asp Asn Leu Arg Asp Tyr Leu
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<210> 407

<211> 9

<212> PRT

<213> Sendai Virus 40

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Ser Glu Phe Leu Leu Glu Lys Arg Ile
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<210> 408

<211> 8

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<213> Vesicular Stomatitis Virus

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Arg Gly Tyr Val Tyr Gln Gly Leu
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<210> 409

<211> 9

<212> PRT

<213> Homo Sapiens

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Glu Ala Asp Pro Thr Gly His Ser Tyr
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<210> 410
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<400> 410
Val Ser Asp Gly Gly Pro Asn Leu Tyr
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<210> 411
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Cys Thr Glu Leu Lys Leu Ser Asp Tyr
1 5

<210> 412
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<400> 412
Glu Val Asp Pro Ile Gly His Leu Tyr
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<210> 413
<211> 10
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 Tyr Met Asp Gly Thr Met Ser Gln Val
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 <210> 416
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 Cys Leu Gly Leu Leu Thr Met Val
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Asp Leu Met Gly Tyr Ile Pro Leu Val
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<210> 427
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Arg Leu Val Thr Leu Lys Asp Ile Val
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<210> 428
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<400> 428
Met Leu Leu Ala Val Leu Tyr Cys Leu
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<210> 429
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Ala Ala Gly Ile Gly Ile Leu Thr Val
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<400> 430
Tyr Leu Glu Pro Gly Pro Val Thr Ala
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<210> 431
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1 5 10

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Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu
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<213> Homo Sapien

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Ile Thr Asp Gln Val Pro Phe Ser Val
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<210> 434

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<213> Homo Sapien

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Lys Thr Trp Gly Gln Tyr Trp Gln Val
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<210> 435

<211> 10

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<213> Homo Sapien

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Thr Ile Thr Asp Gln Val Pro Phe Ser Val
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<213> Human Immunodeficiency Virus 1

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Ala Phe His Ile Ile Val Ala Arg Glu Leu
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<211> 9

<212> PRT

<213> Plasmodium Falciparum

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 <213> Plasmodium Falciparum

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 <213> Influenza

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 Lys Ala Gly Glu Phe Tyr Asn Gln Met Met
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 <213> Epstein-Barr Virus (EBNA)

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 Asn Ile Ala Glu Gly Leu Arg Ala Leu
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 <213> Epstein-Barr Virus (EBNA)

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 Asn Leu Arg Arg Gly Thr Ala Leu Ala
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 <210> 442
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 <213> Epstein-Barr Virus (EBNA)

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 Ala Leu Ala Ile Pro Gln Cys Arg Leu
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 Val Leu Lys Asp Ala Ile Lys Asp Leu

1 5

<210> 444
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Phe Met Val Phe Leu Gln Thr His Ile
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His Leu Ile Val Asp Thr Asp Ser Leu
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Arg Met Leu Trp Met Ala Asn Tyr Ile
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Pro Leu Pro Pro Ala Thr Leu Thr Val
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Arg Met His Leu Pro Val Leu His Val
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Pro Met Pro Leu Pro Pro Ser Gln Leu
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 Gln Leu Pro Pro Pro Ala Ala Pro Ala
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 Ser Leu Glu Glu Cys Asp Ser Glu Leu
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Ile Met Asp Lys Asn Ile Ile Leu Lys Ala
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1 5 10

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Ile Leu His Thr Pro Gly Cys Val
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<210> 472
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His Leu His Gln Asn Ile Val Asp Val
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Phe Leu Leu Leu Ala Asp Ala Arg Val
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Ser Leu Leu Ala Pro Gly Ala Lys Gln Asn Val
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Leu Leu Ala Pro Gly Ala Lys Gln Asn Val
1 5 10

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<400> 477
Phe Leu Leu Ser Leu Gly Ile His Leu
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Ser Leu Tyr Ala Asp Ser Pro Ser Val
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<210> 479
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Gly Leu Ser Arg Tyr Val Ala Arg Leu
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<210> 480
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<400> 480
Lys Ile Phe Gly Ser Leu Ala Phe Leu
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<210> 481
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<400> 481
Glu Leu Val Ser Glu Phe Ser Arg Met
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Lys Leu Thr Pro Leu Cys Val Thr Leu
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Ser Leu Leu Asn Ala Thr Asp Ile Ala Val
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Val Leu Tyr Arg Tyr Gly Ser Phe Ser Val
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Tyr Ile Gly Glu Val Leu Val Ser Val
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1 5 10

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Ala Leu Met Pro Leu Tyr Ala Cys Ile
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<210> 489
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<400> 489

Tyr Leu Val Ala Tyr Gln Ala Thr Val
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<213> Hepatitis C Virus

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Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu
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<400> 492

Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
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Tyr Met Asp Asp Val Val Leu Gly Ala
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<210> 494

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<213> Human Papillomavirus

<400> 494

Gly Thr Leu Gly Ile Val Cys Pro Ile
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<213> Hepatitis C Virus

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Met Leu Asp Leu Gln Pro Glu Thr Thr
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<213> Hepatitis C Virus

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Ser Leu Met Ala Phe Thr Ala Ala Val
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Cys Ile Asn Gly Val Cys Trp Thr Val
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Phe Leu Leu Thr Arg Ile Leu Thr Ile
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His Leu Gly Asn Val Lys Tyr Leu Val
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<400> 509
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Thr Gly Ala Pro Val Thr Tyr Ser Thr Tyr
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Val Ile Tyr Gln Tyr Met Asp Asp Leu Val
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Val Leu Pro Asp Val Phe Ile Arg Cys Val
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Ala Leu Gly Leu Gly Leu Leu Pro Val
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Gly Ile Gly Ile Gly Val Leu Ala Ala
1 5

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<400> 520
Gly Ala Gly Ile Gly Val Ala Val Leu
1 5

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<213> Pseudorabies Virus

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Ile Ala Gly Ile Gly Ile Leu Ala Ile
1 5

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<213> Adenovirus

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<213> Streptomyces Lincolnensis

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 Leu Ala Gly Ile Gly Leu Ile Ala Ala
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 <213> Yeast (YSA-1)

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 Val Asp Gly Ile Gly Ile Leu Thr Ile
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 <213> Bacillus Polymyxa

<400> 525
 Gly Ala Gly Ile Gly Val Leu Thr Ala
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 <211> 9
 <212> PRT
 <213> Escherichia Coli

<400> 526
 Ala Ala Gly Ile Gly Ile Ile Gln Ile
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 <213> Escherichia Coli

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 Gln Ala Gly Ile Gly Ile Leu Leu Ala
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 Lys Ala Arg Asp Pro His Ser Gly His Phe Val
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<210> 529
 <211> 13

<212> PRT
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 1 5 10

 <210> 530
 <211> 11
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 <400> 530
 Ala Cys Asp Pro Phe Ile Ser Gly His Phe Val
 1 5 10

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 Ser Leu Tyr Asn Thr Val Ala Thr Leu
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 Glu Leu Val Ser Glu Phe Ser Arg Val
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 Arg Gly Pro Gly Arg Ala Phe Val Thr Ile
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 His Met Trp Asn Phe Ile Ser Gly Ile
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 <213> Human Papillomavirus

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 Gly Leu His Cys Tyr Glu Gln Leu Val
 1 5

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<400> 537
 Pro Leu Lys Gln His Phe Gln Ile Val
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<210> 538
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 <213> Epstein-Barr Virus (EBNA)

<400> 538
 Leu Leu Asp Phe Val Arg Phe Met Gly Val
 1 5 10

<210> 539
 <211> 9
 <212> PRT
 <213> Influenza

<400> 539
 Ala Ile Met Glu Lys Asn Ile Met Leu
 1 5

<210> 540
 <211> 9
 <212> PRT
 <213> Plasmodium Falciparum

<400> 540

Tyr Leu Lys Thr Ile Gln Asn Ser Leu
1 5

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<213> Plasmodium Falciparum

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1 5

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<400> 542
Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
1 5 10

<210> 543
<211> 9
<212> PRT
<213> Human Papillomavirus

<400> 543
Leu Leu Met Gly Thr Leu Gly Ile Val
1 5

<210> 544
<211> 8
<212> PRT
<213> Human Papillomavirus

<400> 544
Thr Leu Gly Ile Val Cys Pro Ile
1 5

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<400> 545
Thr Leu Thr Ser Cys Asn Thr Ser Val
1 5

<210> 546
<211> 9
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<213> Human Papillomavirus

<400> 546

Lys Leu Pro Gln Leu Cys Thr Glu Leu
1 5

<210> 547

<211> 9

<212> PRT

<213> Human Papillomavirus 16

<400> 547

Thr Ile His Asp Ile Ile Leu Glu Cys
1 5

<210> 548

<211> 9

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<213> Human Papillomavirus 16

<400> 548

Leu Gly Ile Val Cys Pro Ile Cys Ser
1 5

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<213> Homo Sapien

<400> 549

Val Ile Leu Gly Val Leu Leu Leu Ile
1 5

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<211> 9

<212> PRT

<213> Homo Sapien

<400> 550

Ala Leu Met Asp Lys Ser Leu His Val
1 5

<210> 551

<211> 9

<212> PRT

<213> Homo Sapien

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Gly Ile Leu Thr Val Ile Leu Gly Val
1 5

<210> 552
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 <213> Plasmodium Falciparum

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 <400> 553
 Ala Ala Gly Ile Gly Ile Leu Thr Val
 1 5

 <210> 554
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 <400> 554
 Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
 1 5 10

 <210> 555
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 <213> Epstein-Barr Virus (EBNA)

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 Ser Val Arg Asp Arg Leu Ala Arg Leu
 1 5

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 <212> PRT
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 <400> 556
 Ala Ala Gly Ile Gly Ile Leu Thr Val
 1 5

 <210> 557
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 <400> 557
 Phe Ala Tyr Asp Gly Lys Asp Tyr Ile

1 5

<210> 558
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<400> 558
Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5

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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 560
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<400> 560
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1 5

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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 562
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<212> PRT
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<400> 562
Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5

<210> 563
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<400> 563

Ala Leu Leu Ala Val Gly Ala Thr Lys
1 5

<210> 564

<211> 11

<212> PRT

<213> Human Immunodeficiency Virus 1

<400> 564

Arg Leu Arg Asp Leu Leu Leu Ile Val Thr Arg
1 5 10

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<211> 10

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<400> 565

Gln Val Pro Leu Arg Pro Met Thr Tyr Lys
1 5 10

<210> 566

<211> 10

<212> PRT

<213> Human Immunodeficiency Virus 1

<400> 566

Thr Val Tyr Tyr Gly Val Pro Val Trp Lys
1 5 10

<210> 567

<211> 9

<212> PRT

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<400> 567

Arg Leu Arg Pro Gly Gly Lys Lys Lys
1 5

<210> 568

<211> 9

<212> PRT

<213> Influenza

<400> 568

Ile Leu Arg Gly Ser Val Ala His Lys
1 5

<210> 569

<211> 9
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 <210> 571
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 Val Tyr Tyr Gly Val Pro Val Trp Lys
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 <210> 572
 <211> 9
 <212> PRT
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 Arg Val Cys Glu Lys Met Ala Leu Tyr
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 <210> 573
 <211> 9
 <212> PRT
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 <400> 573
 Lys Ile Phe Ser Glu Val Thr Leu Lys
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 Tyr Val Asn Val Asn Met Gly Leu Lys
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1 5

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<211> 9
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<210> 577
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Val Pro Leu Arg Pro Met Thr Tyr Lys
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<210> 578
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Gln Val Pro Leu Arg Pro Met Thr Tyr Lys
1 5 10

<210> 580
<211> 11
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<210> 581
 <211> 12
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 Ala Ala Val Asp Leu Ser His Phe Leu Lys Glu Lys
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<210> 582
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 Ala Cys Gln Gly Val Gly Gly Pro Gly Gly His Lys
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 Ser Tyr Leu Asp Ser Gly Ile His Phe
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 Arg Tyr Leu Lys Asp Gln Gln Leu Leu
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<210> 586
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<212> PRT
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 Ala Phe Leu Pro Trp His Arg Leu Phe Leu
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 Ala Phe Leu Pro Trp His Arg Leu Phe
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 Arg Tyr Ser Ile Phe Phe Asp Tyr
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 <211> 10
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 1 5 10

 <210> 590
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 1 5 10

 <210> 591
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 Met Ser Leu Gln Arg Gln Phe Leu Arg
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<210> 592
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<212> PRT
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Ile Val Gly Leu Asn Lys Ile Val Arg
1 5

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1 5

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Glu Val Asp Pro Thr Ser Asn Thr Tyr
1 5

<210> 596
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<400> 596
Glu Ala Asp Pro Thr Ser Asn Thr Tyr
1 5

<210> 597
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Glu Ala Asp Pro Thr Ser Asn Thr Tyr
1 5

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<400> 598
Glu Val Asp Pro Ile Gly His Val Tyr
1 5

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1

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<210> 604

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<212> PRT

<213> Homo Sapien

<400> 604

Ser Thr Leu Val Glu Val Thr Leu Gly Val

1

5

10

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1

5

10

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<211> 9

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Ile Ile Val Leu Ala Ile Ile Ala Ile

1

5

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<211> 11

<212> PRT

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<400> 609
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Phe Leu Trp Gly Pro Arg Ala Leu Val
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Thr Leu Val Glu Val Thr Leu Gly Glu Val
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Ala Leu Val Glu Thr Ser Tyr Val Lys Val
1 5 10

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Lys Ile Trp Glu Glu Leu Ser Val Leu
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<210> 614
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<212> PRT
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Glu Val Asp Pro Ile Gly His Leu Tyr
1 5

<210> 615
<211> 9
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<220>
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1 5

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<211> 9
<212> PRT
<213> Homo Sapien

<400> 616
Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 617
<211> 9
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<220>
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<222> 4, 5, 6, 7, 8
<223> Xaa = Any Amino Acid

<221> VARIANT
<222> 2
<223> Xaa = A or V

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1 5

<210> 618
<211> 9
<212> PRT
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<220>
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 <222> 5, 6, 7, 8
 <223> Xaa = Any Amino Acid

 <221> VARIANT
 <222> 2
 <223> Xaa = A or V

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<220>
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 <222> 6, 7, 8
 <223> Xaa = Any Amino Acid

<221> VARIANT
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 <223> Xaa = A or V

<221> VARIANT
 <222> 5
 <223> Xaa = I or A or T

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 <222> 7, 8
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 <223> Xaa = A or V

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 <223> Xaa = I or A or T

<221> VARIANT
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<223> Xaa = G or S

<400> 620

Glu Xaa Asp Pro Xaa Xaa Xaa Xaa Tyr
1 5

<210> 621

<211> 9

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<213> Homo Sapien

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<221> VARIANT

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<223> Xaa = Any Amino Acid

<221> VARIANT

<222> 2

<223> Xaa = A or V

<221> VARIANT

<222> 5

<223> Xaa = I or A or T

<221> VARIANT

<222> 6

<223> Xaa = G or S

<221> VARIANT

<222> 7

<223> Xaa = H or N

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Glu Xaa Asp Pro Xaa Xaa Xaa Xaa Tyr
1 5

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<211> 9

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<220>

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<222> 2

<223> Xaa = A or V

<221> VARIANT

<222> 5

<223> Xaa = I or A or T

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<223> Xaa = G or S

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<222> 7

<223> Xaa = H or N

<221> VARIANT

<222> 8

<223> Xaa = L or T or V

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Glu Xaa Asp Pro Xaa Xaa Xaa Xaa Tyr
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<210> 623

<211> 16

<212> PRT

<213> Homo Sapien

<400> 623

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<210> 624

<211> 12

<212> PRT

<213> Homo Sapien

<400> 624

Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu
1 5 10

<210> 625

<211> 9

<212> PRT

<213> Homo Sapien

<400> 625

Ser Ala Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 626

<211> 9

<212> PRT

<213> Homo Sapien

<400> 626

Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 627

<211> 22

<212> PRT

<213> Homo Sapien

<400> 627
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 Ala Arg Leu Met Lys Glu
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 <212> PRT
 <213> Homo Sapien

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<210> 693
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<400> 702

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<400> 703
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<210> 704
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<400> 704
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1 5

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<210> 706
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1 5

<210> 707

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 <210> 710
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<210> 712

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<400> 714

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1

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<210> 720
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<400> 725
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<210> 726
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<210> 727
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<400> 727
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1 5

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1 5

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1 5

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1 5

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1 5

<210> 734
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1 5

<210> 735
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1 5

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1 5

<210> 737
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<400> 737
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1 5

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<400> 738
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1 5

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1 5

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1 5

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1 5

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1 5

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1 5

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<210> 775
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<210> 776
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<220>
<223> Epitope mimic of natural tumor Ag

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Ala His Tyr Leu Phe Arg Asn Leu
1 5

<210> 777
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<220>
<223> Epitope mimic of natural tumor Ag

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<220>
<223> Epitope Mimic of H-3 miHAg

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<210> 779
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<220>
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<210> 784
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<210> 786
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<210> 791

<211> 9
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 <210> 792
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 <210> 793
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 <213> Rabies

 <400> 793
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 <210> 794
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 <210> 795
 <211> 8
 <212> PRT
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 <400> 795
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<210> 802
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 <210> 803
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Leu Ile Glu Thr Ser Tyr Val Lys Val
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Ala Arg Leu Met Lys Glu
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1 5

<210> 939
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Ser Tyr Phe Pro Glu Ile Thr His Ile
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Ile Tyr Ala Thr Val Ala Gly Ser Leu
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Val Tyr Gln Ile Leu Ala Ile Tyr Ala
1 5

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Ile Tyr Ser Thr Val Ala Ser Ser Leu
1 5

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Arg Tyr Leu Lys Asn Gly Lys Glu Thr
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<210> 948
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<213> Gallus Domesticus

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<213> Sendai Virus

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Ala Pro Gly Asn Tyr Pro Ala Leu
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Val Pro Tyr Gly Ser Phe Lys His Val
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<210> 953

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Thr Tyr Gln Arg Thr Arg Ala Leu Val
1 5

<210> 954

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Ser Tyr Phe Pro Glu Ile Thr His Ile
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<210> 963
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<210> 964
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 <213> Lymphocytic Choriomeningitis Virus

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 <223> Xaa = Any Amino Acid

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<210> 969
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<213> Influenza

<400> 969
Gly Ile Leu Gly Phe Val Phe Thr Leu
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<210> 970
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Gln Met Lys Asp Cys Thr Glu Arg Gln
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<210> 975
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<220>
<223> Epitope mimic of natural tumor Ag

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<210> 978
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 <220>
 <223> Epitope mimic of natural tumor Ag

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